



National Weather Service

Storm Data and Unusual Weather Phenomena



August 2004

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

LAKE MICHIGAN

LMZ643	Sheboygan To Pt Washington Wi								
Sheboygan	27	0102CST			0	0			Marine Tstm Wind (MG38)
LMZ646	Wind Pt Lt Wi To Winthrop Hbr Il								
Kenosha	27	0200CST			0	0			Marine Tstm Wind (MG37)
Thunderstorms with strong wind gusts moved out over Lake Michigan after leaving damage behind over parts of south-central and southeast Wisconsin.									

WISCONSIN, Southeast

Sauk County									
Baraboo to 5 SE Baraboo	02	0859CST 0905CST			0	0			Hail(1.00)
A thunderstorm pulsed to severe limits and dumped some large hail. No damage was noted. This lone severe storm was embedded in a line of storms that moved east across south-central Wisconsin.									
Sauk County									
1 N La Valle	03	1505CST			0	0			Hail(0.88)
Sauk County									
Reedsburg	03	1543CST			0	0			Hail(1.75)
Sauk County									
2 SE Reedsburg	03	1547CST			0	0			Hail(1.75)
Sauk County									
1 W Baraboo	03	1554CST			0	0			Hail(1.25)
Sauk County									
Lake Delton	03	1554CST			0	0			Hail(1.00)
Columbia County									
Rio to Columbus	03	1610CST 1630CST			0	0	6M	1M	Hail(3.00)
Columbia County									
Rio to Columbus	03	1610CST 1630CST			0	0	3M		Thunderstorm Wind (EG65)
Columbia County									
Wisconsin Dells to Wyocena	03	1625CST 1830CST			0	0	15K		Flash Flood
Sauk County									
Merrimac	03	1626CST			0	0			Thunderstorm Wind (EG52)
Sauk County									
La Valle	03	1645CST			0	0	1K		Lightning
Dodge County									
Watertown	03	1717CST			0	0			Thunderstorm Wind (EG56)
Jefferson County									
Watertown	03	1719CST			0	0	20K		Thunderstorm Wind (EG56)
Sauk County									
Lake Delton	03	1750CST			0	0			Thunderstorm Wind (EG52)
Washington County									
West Bend	03	1830CST 1900CST			0	0	5K		Lightning
Dane County									
Verona to 2 NE Middleton	03	1838CST 1854CST			0	0			Thunderstorm Wind (EG56)



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WISCONSIN, Southeast

Dane County

Madison to Sun Prairie	03	1900CST 2030CST			0	0		Heavy Rain
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Waukesha County

Waukesha	03	1900CST 1945CST			0	0	20K	Thunderstorm Wind (EG45)
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Jefferson County

Jefferson to Ft Atkinson	03	1915CST 2100CST			0	0	30K	Flash Flood
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Rock County

3.5 SW Afton	03	1930CST 1940CST			0	0	100K	Thunderstorm Wind (EG61)
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Waukesha County

Oconomowoc to Waukesha	03	1930CST 2100CST			0	0	50K	Flash Flood
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Waukesha County

Waukesha	03	1930CST			0	0	100K	Lightning
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Rock County

Beloit	03	1940CST			0	0	10K	Lightning
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Clusters of severe thunderstorms moved southeast through south-central and southeast Wisconsin, resulting in damaging straight line winds that toppled large trees, very large damaging hail, and heavy rains that led to flash flooding. Columbia County suffered the most damage thanks to hurricane-force thunderstorm winds coupled with large hail stones of 1 to 3 inches in diameter. The wind-driven hail damaged at least 100 homes and several businesses and churches in Fall River (Columbia Co.). The wind-driven hail also mowed down some corn and soybean fields between Rio and Columbus. Some of the hail stones were still unmelted the next morning. Flash flooding resulted in gravel shoulder washouts and flooded buildings and basements in the Wisconsin Dells to Wyocena area of Columbia County. Rainfall amounts of 2.50 inches were measured in about 1 to 2 hours in the Portage area (Columbia Co.). Flash flooding also occurred in the Jefferson to Ft Atkinson area of Jefferson County, with gravel shoulder washouts and flooded buildings and basements reported. Rainfall totals up to 2 inches in only 30 minutes were noted on the south side of Ft Atkinson where many cars stalled on flooded roads. Over in Waukesha County, similar flash flooding was noted from Oconomowoc to the city of Waukesha thanks to rains of 2 to 3.39 inches in only 2 hours. The Oconomowoc WWTP reported the 3.39 inches. A downburst wind event south of Afton (Rock Co.) resulted in 1 shed being destroyed, 1 shed and 1 garage damaged, and 2 vehicles dented by debris. Lightning hit a substation transformer in the city of Beloit, knocking power out to 3500 homes. Other lightning strikes damaged a condo unit in the city of Waukesha, damaged a home's electrical system (West Bend, Washington Co.), and damaged a home's roof in La Valle (Sauk Co.). Utility companies estimated that a grand total of about 7500 customers lost power during the storms thanks to trees or tree branches falling on power lines, or electrical strikes

Waukesha County

Waukesha	15	1400CST			0	0	0.20K	Dust Devil
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A dust devil affected a public pool in the City of Waukesha while traveling for about 100 yards. It ripped up some volleyball nets and blew umbrellas off tables. It ingested water from the pool and had dust and leaves embedded in its circulation that extended up to about 100 feet above the ground surface. The afternoon maximum temperature at the Waukesha airport was only 73, with maximum readings in southeast Wisconsin in the 75 to 80 degrees range. Only 4 days earlier, a very cold airmass settled over southern Wisconsin. Maximum temperatures on August 11th were only 59 at Madison (old record for low maximum was 64 set in 1913), and 60 at Milwaukee (old record for low maximum was 63 set in 1988). Other locations in southern Wisconsin topped out in the 56 to 63 range.



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<u>WISCONSIN, Southeast</u>								
Lafayette County 4 W Belmont	26	2230CST			0	0		Thunderstorm Wind (EG56)
Lafayette County 1 S Gratiot	26	2245CST			0	0		Thunderstorm Wind (EG52)
Sauk County Lake Delton	26	2300CST			0	0		Thunderstorm Wind (EG56)
Columbia County Pardeeville	26	2310CST			0	0	400K	Thunderstorm Wind (EG70)
Green County Browntown to Monroe	26	2330CST 2340CST			0	0	20K	Thunderstorm Wind (EG56)
Dane County Madison	26	2345CST			0	0	30K	Thunderstorm Wind (EG56)
Dodge County 3 NW Fox Lake	26	2350CST			0	0	20K	Thunderstorm Wind (EG56)
Fond Du Lac County 4 SSE Eldorado to Fond Du Lac	26 27	2353CST 0007CST			0	0	200K	Thunderstorm Wind (EG65)
Fond Du Lac County Ripon	27	0005CST			0	0		Thunderstorm Wind (EG56)
Sheboygan County 7 W Cascade	27	0039CST			0	0		Thunderstorm Wind (EG56)
Rock County 2 E Beloit	27	0043CST			0	0		Thunderstorm Wind (EG56)
Walworth County 1.8 SW Delavan	27	0050CST			0	0		Thunderstorm Wind (MG52)
Walworth County 2 SW Pell Lake	27	0055CST			0	0	30K	Thunderstorm Wind (EG61)
Kenosha County Twin Lakes	27	0100CST			0	0	10K	Thunderstorm Wind (EG56)
Kenosha County .5 W Paddock Lake to 4 S Salem	27	0110CST			0	0		Thunderstorm Wind (EG61)
Racine County Burlington	27	0125CST			0	0		Thunderstorm Wind (EG52)

A line of thunderstorms bowed out as it moved through south-central and southeast Wisconsin, resulting in locally, powerful, downburst, straight-line wind gusts that leveled large trees and power lines. Pardeeville (Columbia Co.) had the worst downburst (estimated wind gusts to 70 knots, or 80 mph) with about 4 dozen homes damaged (siding and gutters). Many vehicles in Pardeeville were damaged by tree limbs or debris. Two barns and 2 homes were damaged in the Eldorado to Fond du Lac area (Fond du Lac Co.) thanks to powerful wind gusts to about 65 knots (75 mph). In Madison (Dane Co.), a wind-toppled tree fell onto a home, trapping a man in his bed. Crop damage was photographed southwest of Pell Lake (Walworth Co.) by an ultralight pilot. In the Twin Lakes area (Kenosha Co.), large tree branches damaged a home and a vehicle. Utility companies noted that about 8000 customers lost power during the storms, with 1500 alone in Columbia County.